

SEVERE STORMS FOR JUNE 1949

[The table hereunder contains such data as have been received concerning severe storms that occurred during the month.]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Northern Cass and southern Jackson Counties, Mo.	June 1	12:02-12:15 a. m.	440	0	\$100,000	Tornado	Path from 8 miles southwest of Pleasant Hill to 9 miles northeast of town. Much damage to barns, corn cribs, hog houses, poultry and other farm buildings; some blown down. Telephone and light wires broken and scattered. Many trees damaged or destroyed. Crop damage estimated at \$12,500, included in total.
Southern Howard, southeastern Saline Counties, and scattered areas of Randolph, Linn, Platte, Cole, and Boone Counties, Mo.	1	12:30-3 a. m.		1	5,000	Tornadoes, wind, and electrical.	Tornadoes struck Franklin and Nelson communities, resulting in heavy damage at each place. Boonville, New Franklin, Fayette, Columbia, and Moberly had some damage, mostly to trees, by strong winds. Man killed when he contacted a power line which had blown down. Telephone operator slightly injured when lightning struck building housing exchange at Weston. 9 cows killed by lightning near Columbia. Home at Jefferson City set afire by lightning. Slight crop damage by moderate hail. Path 20 miles long.
Nance County, Nebr.	1	Noon	12		100,000	Hail	Crop damage \$57,000; other property \$25,000. Path 15 miles long.
Kearney to north of Gibbon, Nebr.	1	12-12:30 p. m.	15		82,000	do.	
Kosciusko, Miss.	1	3 p. m.				Thundersquall	Trees uprooted, power and communication lines severed.
Rawlins County, Kans.	1	4 p. m.	13		150,000	Hail	Storm caused damage over path 15 miles long in south-central part of county. Mostly crops damaged.
Nebraska City (3½ miles west), Nebr.	1	5:40 p. m.	100	0	20,000	Tornado	Damage mostly to farm buildings.
Page County, Iowa	1	6:15-6:30 p. m.	100-200	0	350,000	Tornadoes, with hail	This most destructive twister had its beginning 3 miles east and a mile south of Shenandoah. It passed across southeastern Bingham. Intensity of storm increased and path began to widen 2 miles northeast of Bingham. Crib with over 10,000 bushels of corn scattered so far that little was recovered. Storm path 10 miles long. About 2 to 2½ miles east of where first tornado reached its peak, a second tornado was in evidence, with path northeastward and parallel to No. 1. Tornado No. 2 less destructive and path only about 5 miles long. 4 farms almost totally destroyed and 8 farms hit with varying degrees of damage. Although eye witnesses reported a 3d funnel farther east, no evidence was apparent from the air. 4 persons injured; one received scalp wounds from large hailstones, which averaged 1 inch in diameter with largest sizes near 2½ inches. Livestock loss rather large. Livestock and crop damage estimated at near \$50,000. A disc blade was found buried 3 inches deep in a tree.
Nemaha County, Kans.	1	7:15 p. m.	450	0	75,000	Tornadoes	Path of destruction began about 3 miles east of Baileyville and extended northeastward approximately 15 miles, ending 1 mile east of Bern. Numerous farm homes, barns, and auxiliary buildings destroyed. Many trees, power and communication lines damaged. Well-developed, long, slender funnel-shaped cloud observed. A second funnel cloud reported over Seneca about 20 minutes after first one, but it did not reach ground.
New Orleans, La.	1	9 p. m.				Electrical and wind	Radio tower station WEEZ destroyed by lightning and high winds.
Southwest, northwest, and central Iowa.	1	Evening and night.				Wind	High winds knocked down power lines near Prescott, severing power between Des Moines and southwestern Iowa. Many points reported local damage from broken tree limbs or overturned small buildings. At Shenandoah 2 inches of rain fell in an hour. Crop damage minor, except in southwest near tornado area.
Winslow (5 miles south), Nebr.	1		13		15,000	Hail and wind	Hailstones small, but numerous and accompanied by high wind.
Oshkosh (northwest of), Nebr.	1		13		52,275	Hail	Path 10 miles long. Grass and crop damage estimated at \$52,000 included in total. Backs of range cattle bruised.
Falls City (west of), Nebr.	1-2	8 p. m. to after midnight.	12	0	790,000	Tornado and rain	About half of damage to crops and remainder to buildings and livestock. Severe flood loss in lowlands, and soil erosion and washing out of corn in rolling uplands.
Eastern Atchison and Carroll Counties, Mo.	1-2	P. m.-7 a. m.		0		Tornado and wind	Tornado destroyed and damaged farm buildings about 5 miles southeast of Tarkio, injuring several persons. At Carrollton high winds damaged at least 1 house, broke a number of power lines and trees, and set rock decorations atop court house at precarious angle.
Jackson County, Kans.	2	Midnight to 1 a. m.	13			Hail	Hail, mostly small, but ranging up to 1 inch in diameter, damaged gardens and crops over several square miles southwest of Soldier.
Caddo County, Okla.	2	7-7:45 p. m.	67	0	3,000	Tornado	Storm circled an area of 1 mile in radius, 3 miles northeast of Alfalfa. 3 funnels observed; 1 touching ground, tearing up large grove of trees. 1 barn unroofed.
Post, Garza County, Tex.	2	9 p. m.	110		40,000	Wind and hail	40 square miles of crops will have to be replanted. Hail moderate; largest, size of golf balls. Wind damage, \$24,000; hail, \$16,000. All damage to cotton and wheat.
Jackson County, Okla.	2	Night				Rain and wind	Considerable damage to ripe wheat. 3.40 inches of rain fell at Altus.
Meeker (near), Colo.	3	4 a. m.	13		20,000	Hail	Hailstones from ¾ to ¾ inch in diameter covered ground to depth of 2 inches. Practically all crops within an area from near Meeker station to 8 miles north a total loss.
Pawnee County, Kans.	3	Early morning	11		10,000	do.	Storm moved southeastward in northern portion of county over path 3 miles long. Hail mostly size of marbles. Crops main loss.
Marion County, Kans.	3	12:30 p. m.	12		150,000	do.	Damage extended over path 10 miles long near Lost Springs, in northern part of county. Many hailstones as large as hens' eggs. Principal damage to crops.
Osage County, Kans.	3	1:30 p. m.	13		5,000	do.	Storm path 4 miles long. Mostly crop damage.
Sumner County, Kans.	3	1:30 p. m.		0	6,000	Tornado and wind	Only damage resulting from tornado was to large barn 6 miles northwest of Wellington. High wind caused some damage over 3-mile path in same area.
Roger Mills and Ellis Counties, Okla.	3	3:30-7:20 p. m.			125,000	Tornadoes, wind, hail, and electrical.	In area 5 x 30 miles west of Leedey, from Strong City to east of Arnett. Loss of \$100,000 to crops and \$25,000 to roofs and glass by hail. 2 tornado funnels reported, but did not reach ground. 2 animals killed by lightning.
Houma, La.	3	3:45 p. m.				Thundersquall	Trees uprooted and limbs broken. Telephone and power lines down for several hours. Advertising signs blown down.
Washington County, Okla.	3	4-4:15 p. m.	850	0	0	Tornado	North and northeast of airport at Bartlesville; moved northeastward for about 2½ miles in open country, filling air with debris. No property in path.
Northeastern Monroe and southern Marion Counties, Mo.	3	5:20 p. m.		0	0	do.	Tornado cloud estimated to be about 1,000 feet above ground, passed over Monroe City moving northeastward.
Leedey (near), Okla.	4	1:30 a. m.	440		2,500	Wind	High, straight, gusty wind from southeast. Debris in line of path.
Prowers County, Colo.	4-5				1,750,000	Rain, hail, and floods.	Flash flood, caused by nearly 7 inches of rain, swept over lower Arkansas River Valley, mainly in areas of Bristol, Lamar, and Holly. As much as 4 feet of debris piled up in many places. Highway traffic halted and 100 feet of Santa Fe Railway track washed out.

¹ Miles instead of yards.

SEVERE STORMS FOR JUNE 1949—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Florence-Portland area, Colo.	June 5	5 a. m.-6 p. m.	16	-----	\$250,000	Rain, hail, and floods.	Downpours causing a wall of water 10 feet above flood stage, inundated Florence-Portland area in southeastern Fremont County; heavy damage to buildings, railroads, and highways. 31 homes swept away or upset.
Muskogee, Okla.	5	10:30 a. m.	14	0	1,000	Tornadoes.	3 tornado funnels observed, but only 2 touched ground. 1 funnel on ground for about 75 feet. The other about 10 blocks to the northeast struck, unroofing a shed and tearing off a porch.
Cloud County, Kans.	5	3-4 p. m.	12	-----	-----	Hail.	Storm moved eastward over path 8 miles long across southern portion of county.
Molena, Ga.	5	Afternoon.	-----	-----	3,000	Wind and hail.	High winds and hail damaged houses, outbuildings, and turkey sheds; also, blew down or delimbed a few trees. About 1,000 turkeys killed.
Shell, Wyo.	5	do.	-----	0	-----	Tornado.	Principal damage to trees, fences, and windows.
Nashville, Tenn.	5	5 p. m.	-----	-----	-----	Thunderstorm, with rain and hail.	Electric wires downed in various sections of city. Heavy trees felled in Thompson Lane-Franklin road area. Damage to Cascade Swimming Pool, \$300 to \$400.
Buffalo, Wyo.	5	5-6 p. m.	-----	0	-----	Tornado and hail.	Slight damage to growing crops by hail. Tornado funnel failed to reach ground.
Boise County, Idaho.	5	7 p. m.	-----	-----	-----	Rain.	Runoff from heavy rain concentrated in small draw swept mud, boulders, and trees across Boise-Idaho City Road, blocking traffic for 4 hours. Slide occurred about 25 miles from Boise.
Colorado Springs, Colo.	6	12:02-4:36 p. m.	14	-----	20,000	Wind, hail, and rain.	Storm path 20 miles long, east of Colorado Springs. Hail, piling up to 6 inches, resulted in damage to crops, livestock, and buildings. Much damage also to streets and highways by runoff.
Roswell, N. Mex.	6	3:30 p. m.	300	0	-----	Tornado and hail.	Funnel struck open country southwest of city, passing within 3 miles of Walker Field. No buildings in path of storm. Path approximately 12 miles long. Heavy hail reported. Little damage.
Cimarron, N. Mex.	6	P. m.	-----	0	0	Tornado.	Small funnel reported over range land about 4 miles east of Cimarron.
Devine, Medina County, Tex.	6	Evening.	12-5	0	500,000	Hail.	Most serious crop damage northwest of Devine where corn and cotton leveled.
Dunlay, Medina County, Tex.	6	do.	12-5	-----	100,000	Wind and hail.	Heavy damage in southern part of community. Wind blew over crops not damaged by hail.
Biry, Medina County, Tex.	6	-----	1 1/2	-----	-----	Hail.	32 acres of corn ruined.
Buffalo, Wyo.	6	-----	-----	0	0	Tornado.	Funnel failed to reach ground.
Albany to extreme southern Dougherty County, Ga.	7	1:40-6 p. m.	15-6	-----	5,500	Wind and hail.	Hail, 1/4 to 1/2 inch in diameter, caused crop loss estimated at \$3,000, involving chiefly watermelons, cotton, vegetables, and peanuts. Property damages due more from lightning than wind, affecting 2 residences and 1 garage; 800 telephones and almost all long distance lines out of service; heavy damage to high voltage line. Storm moved for 10 miles southward.
Optimo and vicinity, N. Mex.	7	2 p. m.	-----	-----	2,000	Hail.	Principal damage to beans and small grains.
Osage County, Kans.	7	2 p. m.	880	0	5,000	Tornado.	Funnel-shaped cloud dipped to ground 4 or 5 miles north of Quenemo, damaging barns and other farm buildings. Path about 1 mile long.
Green County (central portion), Mo.	7	3:20 p. m.	-----	0	25,000	Tornado, electrical, and hail.	Small tornado damaged trees, farms, and small business places in small area just west of Springfield. Some high voltage lines, fused by wind, cut off power in some areas. Lightning and hail did some damage in scattered places. Hailstones measured up to 4 inches in circumference, with some damage to gardens and crops.
Tulsa County, Okla.	7	4 p. m.	400	-----	2,000	Wind.	In Skiatook and vicinity several small buildings blown down; accompanied by light, small hail.
Montgomery, Ala.	7	4-4:45 p. m.	-----	-----	4,220	Thundersquall.	Destroyed hangar at Norman Bridge Airport, and slightly damaged some small airplanes with flying debris. Damage confined to small area, with some timbers and roof sections blown 2 to 5 hundred feet.
Jefferson Parish, La.	7	Early afternoon.	-----	-----	-----	Hail.	Heavy hail of brief duration lashed small area east of the River and moved into Carrollton section of New Orleans.
Saline County, Kans.	7	Afternoon.	11	-----	-----	do.	Hailstones small, but very numerous and driven by high wind. A number of farms near New Cambria suffered almost 50 percent loss of crops.
Chaves County (southern part), N. Mex.	7	P. m.	-----	-----	-----	do.	Scattered crop damage. Cumulative loss to crops from hail for season estimated at \$100,000 in county.
Montgomery County, Kans.	7-8	Noon to 8 a. m.	-----	-----	8,000	do.	Path northeastward from county line south of Coffeyville to Edna, 20 miles northeast. Most damage to wheat.
Kingsville, Kleberg County, Tex.	8	1 a. m.	15	-----	5,000	Wind and hail.	Grain in head blown over. Cotton bolls blown off. Wind damage, \$3,500; hail, \$1,500.
Albany, Ga.	8	3:15-6 p. m.	13-5	-----	1,000	Electrical.	Lightning struck 2 homes, burning out wiring and burning holes in ceiling and roof of 1. Great number of telephones out of service; some knocked out by storm of previous day.
Bonneville, Madison, and Jefferson Counties, Idaho.	8	4:20-6:30 p. m.	-----	-----	75,000	Rain and wind.	Storm 4 miles northwest of Idaho Falls and in Roberts-Menan area. Damage to crops estimated at \$75,000, 30 percent by high wind and 70 percent by rain. At Idaho Falls Airport 0.69 inch of rain fell in 25 minutes.
Concord (near), Ga.	8	Afternoon.	-----	-----	1,000	Wind and hail.	Storm moved southeastward for about 3 miles, with heavy hail in spots but mostly away from crop fields. High winds caused all damage, which included 2 barns unroofed, 2 tenant houses moved from their foundations, minor damages to other buildings, and some trees blown down.
Belvidere, Nebr.	8	6:42 p. m.	100	3	75,000	Tornado.	Path 1 mile long. 7 persons injured. A brick restaurant demolished and adjoining buildings damaged.
Shelton, Nebr.	8	7:30 p. m.	-----	-----	500	Wind.	Damage to buildings.
Portales, N. Mex.	8	7:45 p. m.	-----	-----	30,000	Hail and rain.	Wheat, cotton, and young row crops damaged over considerable area east of city.
Horse Cave, Ky.	9	3-3:45 p. m.	-----	1	-----	Electrical.	1 person killed by lightning 2 1/4 miles east of Horse Cave during a heavy electrical and rain storm.
Marshall, Wyo.	9	4 p. m.	-----	0	0	Tornado.	Funnel sighted, but failed to reach ground.
Sarasota, Fla.	10	1 p. m.	-----	0	0	Waterspout.	A mile or 2 offshore, about 10 miles southwest of station.
Fergus County (north portion), Mont.	10	4-4:30 p. m.	1 3/4-1	-----	1,200	Hail.	Damage to small grain and gardens.
Absarokee, Mont.	11	3-3:30 p. m.	880	-----	1,000	do.	Damage to hay and grain.
St. Louis, Mo.	11	5-6 p. m.	-----	-----	-----	Wind.	Wires down and tree limbs broken in various parts of city.
Alfalfa County (southern half), Okla.	11	9:15-11:45 p. m.	-----	-----	450,000	Rain.	Unofficial rainfall of more than 9 inches reported south of Cherokee. Heavy local flooding at Cherokee; about 200 homes had from 1/2 to 3 feet of water. \$100,000 damage to buildings. Total crop loss in area 17 x 20 miles; estimated \$350,000.
Ainsworth (3 1/4 miles north-northwest), Nebr.	12	12:15 p. m.	100	0	10,000	Tornado and electrical.	Lightning struck and burned barn and contents. Tornado damage slight.
Perham and vicinity, Minn.	12	12:30 p. m.	15	-----	500	Thundersqualls.	Scaffolding at new bank building blown down; several trees uprooted and branches broken off; wires down.
Medicine Bow, Wyo.	12	-----	-----	-----	-----	Rain.	1 small bridge washed out by flash flood.
Milwaukee, Wis.	13	2 a. m.	-----	-----	-----	Electrical.	Lightning set fire to dwelling. Fallen electric wire set fire to small garage. Chimney struck by lightning. Utility wires broken by falling tree limbs.

1 Miles instead of yards.

SEVERE STORMS FOR JUNE 1949—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Nambe, N. Mex.	June 13	1 p. m.			\$1,500	Hail and rain	Gardens and fruit main loss. Roofs and windows of some homes damaged.
Reedy and vicinity, W. Va.	13	5:30 p. m.				Electrical, rains, and winds.	Team of mules valued at \$400 killed by lightning; barn damaged by fire set by lightning. Some damage to other buildings and to crops from rain and wind.
Crawford County (northeastern portion), Mo.	13	Night		1		Electrical	On farm 7 miles south of Sullivan lightning struck tree, killing youth.
Jacksonville, Tex.	14	11:30 a. m.	1 10		3,000	Wind	Many large trees broken, garage demolished, and many windows blown out.
Dayton, Liberty County, Tex.	14	2 p. m.	50		10,000	do	Most damage confined to 1 store; 2 other stores slightly damaged.
Endee, N. Mex.	14	4 p. m.			60,000	Hail	Grains total loss, estimated \$60,000. Row crops will have to be replanted. Undetermined damage to buildings; every house in town will need reroofing; houses north of town badly damaged.
Spink, Beadle, and Kingsbury Counties, S. Dak.	15	2-4 p. m.	1 10			do	50 to 100 percent damage to crops.
Pipestone, Rock, and Nobles Counties, Minn.	15	8 p. m.	880		35,000	do	Moderate to heavy hail, that accompanied a severe thunderstorm, caused considerable damage to growing crops. A few fields of small grains a total loss.
Magic Reservoir, Blaine County, Idaho.	15	Late afternoon		2		Wind	Sudden, severe windstorm on backwaters of Magic Reservoir caused boat bearing 3 fishermen to capsize; 2 drowned.
Scott, Clark, and Washington Counties, Ind.	15				100,000	Rain and flash flood	Damage to crops estimated at \$60,000; roads and dwellings, \$40,000.
Grant and Morton Counties, N. Dak.	16	8 p. m.			150,000	Hail	Most damage in northeastern Grant County where some crops 100 percent loss.
Columbia Falls, Mont.	16					Wind	Damage to telephone lines.
Mike Horse, Mont.	16-17	3 p. m.-2 p. m.				Snow	Damage to power and telephone lines.
Bitterroot Valley, Mont.	16-17	6 p. m.				Rain and snow	Branches of shade and cherry trees broken by snow; large amount of hay bent over. Power lines broken.
Anaconda, Mont.	16-17	6 p. m.-9 a. m.	1 40			Snow	13 inches of snow. Some damage to roofs, trees, shrubs, hay and grain. At Georgetown Lake 16 miles west of Anaconda, 22 inches of snow reported, with considerable damage to forest.
Boulder, Mont.	16-17	9 p. m.				do	Wet snow broke trees, shrubs, and garden plants, and caused damage to power and telephone lines.
Deer Lodge, Mont.	16-17	11 p. m.-3 p. m.			2,500	do	Wet snow broke many shade trees, and caused death of freshly shorn sheep.
Philipsburg, Mont.	16-17					do	Damage to rural power lines in Flint Creek and Rock Creek Valleys from wet snow which accumulated up to 6 inches or more in diameter on wires.
Seattle, Wash.	17	4:11-5 p. m.				Thunderstorm	Small, occasional damage to windows and trees. 2 small boats capsized in Lake Washington; no lives lost. Strong convective storm developed very rapidly with sudden wind shift from north to southeast. Extreme velocity, recorded at Seattle office, only 26 m. p. h. from southeast at 4:11 p. m. Reports of tornado not verified, twisting effect apparently resulting from wind shift.
Willmar and vicinity, Minn.	17	5:07 p. m.			25,000	Thundersqualls and hail	A 200-foot radio tower toppled; several trees uprooted; poles and wires down; several barns blown down or unroofed; automobiles and farm machinery damaged. Light to moderate hail caused \$10,000 damage to small grains, included in total.
Yuma, Colo.	17	5:30-5:55 p. m.	880	0	25,000	Tornado, hail, and rain	Storm first struck 15 miles southwest of Yuma and moved in semicircle to northeast. Many farm buildings damaged by tornado. Heavy hail destroyed crops in spotted areas.
Eckley, Colo.	17	6 p. m.			18,000	Wind, hail, and rain	Trees stripped of leaves and bark. Growing crops driven into ground.
Phoenix, Ariz.	17	6-7 p. m.	1 10			Thunderstorm and wind	Power and telephone services disrupted as poles were blown down.
Wray, Colo.	17	6:30 p. m.			2,000	Wind, hail, and rain	Principal damage to trees. Some crops destroyed by hail.
Dundy and Hitchcock Counties, Nebr.	17	8:30-10:30 p. m.	1 3-10		1,000	Hail and wind	Some windows broken, roofs damaged, cars dented, and many trees damaged.
Casa Grande and Eloy, Ariz.	17	Evening				Wind	30 telephone poles down on main line, disrupting El Paso-Yuma toll line.
Augusta and Rockingham Counties, Va.	17-18					Rain	Much damage and some loss of life by flooding.
Tucker, Pendleton, Grant, Hardy Counties, W. Va.	17-19; 27			5		Rains	Cloudbursts, giving up to 24 inches of accumulated rainfall, caused South Branch of Potomac River to rise rapidly to flood stages. Over 1,200 homes and business places reported damaged or destroyed; bridges washed away; over 100,000 poultry and livestock drowned and many more injured or marooned; crops ruined; automobiles caught in flood waters and damaged; communications and power services disrupted; water supplies contaminated; roads washed out; mountain slides covered lowlands with debris and changed courses of small streams. 7 or more persons missing in addition to 5 drowned. Property damage estimated at several million dollars.
Rawlins County, Kans.	18	Evening				Hail	Most destruction along 8-mile path at extreme north side of county. Storm moved eastward.
Hayden, Ariz.	18	Evening			50,000	Thunderstorm, wind, and flash flood	Communication disrupted. Nearly 100 houses damaged. Number of trees and poles blown down. Several homes flooded by flash flood in canyon between Millside and Smelterside. Portion of roof blown off mill and smelter. A 6-car garage lifted from its foundation and demolished, portions of building carried 1 block by wind.
Secotan, Fla.	18		50	0	0	Tornado	Small twister in south end of Taylor County. A few trees broken and twisted off. Path short.
Ridgway, Mont.	19	Afternoon				Wind and hail	Crops damaged and small buildings blown over.
Ekalakala (northwest of), Mont.	19					Hail	Damage to grain, peas, beans, and beets.
Little Falls and vicinity, Minn.	20	6 a. m.	1 2		15,000	Thundersquall with hail	A number of farm buildings demolished or otherwise damaged. Heavy hail damaged growing crops. \$5,000 damage due to hail, included in total.
Greenville, Pa.	20	1:40-2:25 p. m.				Rain, wind, flash flood, and electrical	Man knocked down when lightning struck church wall, toppling concrete block wall into recently built basement auditorium. High winds ripped trees and awnings, and sent an overhead crane at Steel Car plant off its track and onto ground. Water from flash flood reached depth of 4.5 to 5 feet on Stewart Ave., engulfing parked cars. For first time in memory of local residents, gushing torrents overflowed curbs and sidewalks, and flowed in front doors of several business places on Main Street. Observer reported 2.52 inches of rain fell in 45 minutes. Most water damage resulted when storm sewers became clogged.
Ute, Iowa	20	6:45 p. m.		1		Electrical	Farmer killed by a bolt of lightning while standing beneath a tree in a severe electrical storm. Another person, standing nearby, stunned and paralyzed for a short time. Storm accompanied by rain, hail, and high wind.

1 Miles instead of yards.

SEVERE STORMS FOR JUNE 1949—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Sac City, Iowa.....	June 20	7 p. m.			\$22,500	Wind.....	Struck Sac City Airport, 3 miles south of town. A cement block building damaged. 2 planes upset, with 1 completely demolished.
Putnam County (central portion), Mo.	20	Night.....				Electrical.....	Lightning struck and burned large barn west of Unionville. Electrical appliances at a home in town burned out by lightning.
Allegheny, County, Md.....	20	P. m.				Cloudburst and floods.	A cloudburst broke over Dan's Mountain west of Cumberland, sending torrents of water into valley areas on both sides of the mountain. Traffic disrupted when many low points on highways inundated. Speedy waters carried huge rocks and tons of dirt from hills, depositing much of it on roads below. Some cellars flooded.
Argyle and vicinity, Minn..	20	P. m.	1 2 1/4		70,000	Hail.....	Moderate to heavy hail, that accompanied a severe thunderstorm, caused much damage to growing crops. Small grains damaged from 10 to 100 percent.
Hermansville, Mich.....	21	9—10:30 p. m.				Electrical, wind, and rain.	Several buildings wrecked. Over 2 inches of rain fell in 1 1/4 hours.
Chouteau County, Mont.....	21					Hail.....	Some damage to wheat over 3-mile path in the northwestern portion of county.
Sonnette, Mont.....	21		1 10		100,000	do.....	Hail 1/2 to 3/4 inch in diameter caused severe damage to wheat, oats, alfalfa, and native hay, completely destroying some fields. Windows broken, and buildings badly damaged. Gardens destroyed, and many chickens killed.
Lemington, Essex County, Vt.	21					do.....	Hailstones were from 1 inch up and seemed to be a fused mass of smaller stones, although still large hexagonal crystals of ice. Considerable damage to gardens and glass.
Omaha and vicinity, Nebr..	22	Midnight to late afternoon.	1 2		80,000	Hail and rain.....	Path 4 miles long. Heaviest damage to greenhouses. Some washing damage to streets.
Sanford, Fla.....	22	7 a. m.			50	Electrical.....	2 houses struck by lightning.
Nelson (4 miles west), Nebr.	22	5:45 p. m.	880		2,500	Hail.....	Path approximately 3 miles long.
Gage County (northwestern portion), Nebr.	22	6-6:30 p. m.	1 4		75,000	do.....	Damage mostly to crops.
Auburn, Nebr.....	22	7:30 p. m.			35,000	Wind.....	\$30,000 damage to airplanes and hangar; \$5,000 to other property.
Miami, Fla.....	22	Night.....				Electrical.....	Woman burned by lightning which struck light cord on bed.
Naples, Cumberland County, Maine.	22	do.				Wind.....	Violent thunderstorm wind, described locally as a "twister", swept through narrow belt of town, felling trees and damaging light and telephone wires. A small roadside stand demolished.
Secotan, Fla.....	22					Electrical.....	Lightning burned out about 200 yards of Forest Service telephone line over water.
Morgan County, Ill.....	23	2:30 p. m.			100,000	Wind, hail, and rain.	Storm most severe in northeastern part of county. Several buildings damaged by high winds. Many trees blown down, blocking traffic and disrupting utility services. Hail caused considerable damage to growing crops, mainly wheat, corn, and oats. Heavy rain.
Lincoln, Nebr.....	23	Late afternoon and early evening.	1 4			Rain.....	Some basements flooded, widespread flooding of streets. Considerable damage to wires.
Ralls County (northeastern portion), Mo.	23	4:15-7:25 p. m.	1 15		4,200	Wind and rain.....	Minor damage to crops, some poultry loss, and some washouts on railroads and county roads. Crop loss estimated at \$2,200, included in total. Area surrounding Saverton mostly affected.
De Witt, Iowa.....	23	9:45 p. m.				Wind.....	Several farmsteads 2 miles northeast of De Witt damaged. Small buildings overturned and trees uprooted. Telephone and power services disrupted. Many tree limbs downed in residential area.
Mountain Park, N. Mex.....	24	1 p. m.			5,000	Hail.....	Crops and fruit damaged.
Cloud County, Kans.....	24	3 p. m.	880			do.....	Storm occurred about 14 miles southwest of Concordia in path 1 mile long. A few fields damaged 25 percent.
Nodaway County (central portion), Mo.	24	5-5:15 p. m.	330	0	4,000	Tornadoes.....	Eyewitness reported 2 small funnel clouds estimated to be 1/4 mile apart. 1 never quite touched ground, but the other after dipping several times, finally struck west and northeast Maryville in path over 1/2 mile long before dissipating. Considerable damage to windmills, roofs, small outbuildings, trees, and to telephone and light wires and poles.
Iowa.....	24	Afternoon and evening.				Wind and rain.....	Thunderstorms, with heavy rain, hail, and strong winds, rather widespread. At Van Meter, 1.60 inches rain fell in an hour and winds uprooted many trees. At Mystic, near Centerville, heavy rains sent Walnut Creek over its banks in small flash flood. At Allendorf, east of Sibley, a torrential rain accompanied by hail flattened crops. A number of wires down in Des Moines from broken tree limbs.
Jackson and Pike Counties, Ohio.	24	Evening.....				Wind.....	Moderate damage to power and communication lines. Roof blown from 2 barns. Roads blocked by fallen trees.
Jackson and vicinity, Minn..	24	p. m.			20,000	Hail.....	Light to moderate hail, that accompanied a severe thunderstorm, damaged growing crops. Some fields of small grains damaged from 50 to 90 percent.
Fortine, Mont.....	24					do.....	Damage to grain, gardens, and Christmas trees.
Minneapolis, St. Paul, and vicinity, Minn.	25	6 p. m.			55,000	Thundersqualls with hail.	3 barns blown down; many trees uprooted or branches broken off; wires down; 11 cows killed; city and farm buildings, and automobiles damaged. Hail damaged growing crops and property, especially greenhouses. Hail damage of \$25,000, included in total.
Jacksonville Beach, Fla.....	26	3 p. m.				Electrical.....	Lightning struck an electric power transformer controlling drawbridge between beaches and Jacksonville while bridge was lifted; service interrupted for an hour.
Seward County, Kans.....	26	7-8 p. m.	1 7		150,000	Hail.....	Most damage over about 5 sections southwest of Liberal and 6 sections northeast of town. Stones size of walnuts. Damage to buildings, \$25,000; wheat loss, \$125,000. Path extended from north-central part of county south about 20 miles to near Oklahoma line.
Lane, Gove, and Scott Counties, Kans.	26	7-8 p. m.			25,000	Hail and wind.....	Path about 25 miles long over eastern Scott, southern Gove, and western Lane Counties. Hailstones ranged from less than 1/2 inch to over 3 inches in diameter. Little loss except to wheat.
Ohio, most of state.....	26	Evening.....				Wind and electrical.	Barn destroyed by lightning near Columbus, estimated \$10,000 damage. 6 persons injured by lightning at Ravenna and 1 near Columbus. Child injured by falling tree at Zanesville. Lightning did \$75,000 damage to factory at Hamilton. 2 horses killed by lightning. Minor crop damage by wind.
Logansport, Ind.....	26				500,000	Rain and flash flood; wind and hail.	Streets flooded; some houses surrounded by water. Wabash River did not overflow.
Washington County, Kans..	26-27	During night.....				Hail and rain.....	Occurred north of Hanover. Complete loss of wheat in some places.
Hillsboro (near), Wis.....	27	A. m.				Electrical and wind.	Phone and electric wires down. Tree limbs broken. 11 head of cattle killed by lightning.
Tennyson, Wyo.....	27	2-3 p. m.				Hail.....	Crop damage estimated 10 to 30 percent in small area.
Windsor, Colo.....	27	3-3:15 p. m.	1 2 1/4		50,000	Hail and wind.....	Hailstones comparatively small, but wind driven; severe damage to small vegetation.
Cheyenne County (southwestern portion), Nebr.	27	5 p. m.	1 2			Hail.....	Path 12 miles long. Damage to wheat varied from little to total loss, but latter areas very small. Damage spotted.

¹ Miles instead of yards.

SEVERE STORMS FOR JUNE 1949—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Southeastern Nebraska.....	June 27	Late afternoon		1		Rain	Flooding caused severe damage to Omaha streets. Highway damage \$16,000 to \$20,000 in Douglas County. Man swept from stalled car and drowned in flash flood near Crab Orchard.
Cheyenne County, Kans.....	27	7 p. m.	1 12		\$1,000,000	Hail and wind	Damage extended east to west across county. Wind damaged roofs and broke glass in homes and business houses. Hail size of marbles. Complete loss of wheat in some areas.
Thomas County, Kans.....	27	7-8 p. m. and 8:30-8:45 p. m.	1 5		250,000	do	Path of damage extended from Levant to Rexford, about 25 miles. The second hailstorm much more severe. Stones varied in size from small to 3 inches in diameter. High wind occurred after hail had fallen. Wheat chief loss, but other crops, roofs, and siding of houses, and store windows also damaged.
Thomas County, Kans.....	27	7 p. m.	1 8		1,000,000	Hail	Northwestern portion of county hardest hit. Path southeastward 18 miles long. Hailstones ranged in size from ¼ inch to size of golf balls.
Sheridan County, Kans.....	27	9:30-10 p. m.	1 2-4			Hail and wind	Damaging hail fell in the northwestern corner and southern half along path about 20 miles long. Hail size of golf balls. Storm moved eastward. Considerable wheat flattened by wind.
Ottawa County, Kans.....	27	11 p. m.	1 1		12,000	Wind	Storm in and near Minneapolis resulted in some property loss and extensive damage to wheat by lodging. Telephone and power lines blown down.
Wheeling and vicinity, W. Va.	27	Evening			50,000	Rains and wind	City streets flooded. Carnival equipment suffered wind damage.
Iowa, western portion	27	Evening				Rain and hail	A torrential rain dumped nearly 4 inches of rain in downtown Council Bluffs and vicinity shortly after 6 p. m. Main street in Council Bluffs under 3 feet of water in places; many motorists stalled or temporarily trapped. Some hail fell in eastern part of town. In vicinity of Dow City in Crawford County, severe hailstorm shredded growing crops in area several miles wide and 6 miles long. Only a small acreage totally destroyed, as most crops expected to recover quickly.
Rawlins County, Kans.....	27	Evening				Hail and wind	Area east and south of McDonald and Beardsly in west-central part of county damaged, mostly from hail. Wind broke trees, damaged power lines, and broke plate glass windows in some stores.
Washington County, Kans..	27	During night	1 2		3,500	do	Heavy wind and some hail flattened wheat in several communities just south of Greenleaf; path 3 or 4 miles long.
Berkshire County (northern portion), Mass.	27					Wind, electrical, and rain.	Trees blown down across power and telephone lines by winds estimated at 45 m. p. h. Lightning struck transformers crippling electric service for several hours. Some main streets in North Adams flooded to depth of 1 foot by heavy rain.
Mitchell and Cloud Counties, Kans.	27-28	9:10 p. m.-2 a. m.			750,000	Wind and hail	Damage from Beloit to northeast portion of Cloud County. Hail areas not clearly defined. Several funnel-shaped clouds observed from 10 to 10:30 p. m., but none reached ground. Much wheat matted to ground by high wind and very heavy rain. Loss of wheat, corn, oats, and alfalfa estimated at \$600,000 included in total. Some property damage from wind.
Dickinson County, Kans....	28	2 a. m.	1 1		25,000	Wind	Storm of near tornadic violence began near Herington and traveled north for about 10 miles, causing considerable property and crop damage. Roofs blown off; plate glass windows broken; trees, power and telephone lines blown down. Small grain flattened. Trees and wires down.
South Bend and Mishawaka, Ind.	28	1 p. m.			5,000	do	
Carroll and Cass Counties, Ind.	28	4 p. m.	1 2		1,100	Wind and hail	Hail up to ¼ inch in diameter; \$1,000 damage to crops included in total.
Good Hope, Horry County, S. C.	28	4 p. m.		1		Electrical	Child struck by lightning and killed.
Upper Stewarts Creek and Hinzman Run Valleys between Linn and Glenville, W. Va.	28	6-8 p. m.			17,000	Rains	Flash flood washed away and destroyed a house, washed away garage, undermined house foundation, destroyed outbuildings, ruined crops, did minor damage to roads, and destroyed livestock and poultry.
Belmont County, Ohio.....	28	6:20 p. m.			15,000	Wind and electrical	Trees and wires blown down. Minor lightning and hail damage.
Conrad, Mont.	28					Wind	Trees broken.
Lincoln (northeastern portion), Nebr.	29	5 a. m.			30,000	Electrical	Grocery store struck and set afire; interior and contents destroyed.
Saco (near), Mont.	29	5:45 p. m.		1		Wind	Aviator killed, and passenger seriously injured in plane crash.
Ingham and Livingston Counties, Mich.	29	Afternoon				Electrical, wind, rain, and hail	Storm struck Williamston, destroying shed and 9 hogs, and burned barn. 2 barns near Mason, and 1 house near Howell struck by lightning and burned.
Vega, Oldham County, Tex.	29	6 p. m.	1 3		3,000	Wind and hail	Wheat downed. Wind damage, \$600; hail, \$2,400.
North Dakota, entire State..	29	Early evening			120,000	Wind	Many farm buildings and some crops damaged, mostly in northeastern part of State. Damage to buildings, \$90,000; damage to crops, \$30,000.
Cumberland and vicinity, Md.	29	P. m.				Rains, wind, and electrical	Termed by some as cloudburst, with measured fall of 2.42 inches in Cumberland. Heavy rains, lightning, and winds combined to disrupt at least 2,000 telephones, paralyze fire department's communication system, and damage trees, shrubbery and streets.
Telegraph Creek, Mont.....	29		1 5-10		2,000	Wind	Small buildings and roofs damaged, 2 granaries moved; haystacks damaged; some poultry killed.
Glasgow, Mont.	29				10,000	do	Wind, reaching peaks of 55 m. p. h., blew rocks through windows, damaged roofs, blew signs over, and caused complete loss of airplane and damage to another.
Polk County, Minn.....	30	1 a. m.			30,000	Thundersquall	Several barns and outbuildings demolished; many buildings damaged; poles and wires down; trees uprooted or branches broken off; signs, billboards, and awnings torn away; growing crops damaged.
Stanley, Wis.	30			1		Electrical	Death by lightning.
Phillips (near), Wis.	30			1		do	Do.

1 Miles instead of yards.

LATE STORM REPORTS FOR MARCH, APRIL, AND MAY 1949

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Columbia (6 miles south-east), S. C.	March 9	4:30 p. m.	-----	1	\$3,000	Electrical	A bolt of lightning struck 1 person and destroyed home by fire.
Iowa, northwestern half	April 14	-----	-----	-----	-----	Snow	Heavy snowstorm accompanied by 40 m. p. h. northerly winds. Falls of 6 to 8 inches general over wide area from Woodbury County to Winneshiek County. Highways temporarily blocked by drifts 3 to 4 feet deep; many motorists marooned 6 to 24 hours. Most damage confined to power and telephone lines. One of the 4 greatest snowstorms of record for so late in the season. Snow provided needed moisture for small grain and spring seedings.
Claiborne Parish, La.	May 1	5 p. m.	-----	0	25,000	Tornado	Path about 4 miles south of Homer. 12 persons injured. 5 homes and 4 barns destroyed. Storm crossed oil field, but did little damage.
Wilkes-Barre and Wyoming Valley, Pa.	5	4-6 p. m.	-----	-----	50,000	Electrical and wind	Overhead coal conveyor line broken by wind; fell across Lehigh Valley R. R. tracks, interrupting traffic for 1 hour. 2 fires caused by lightning. 2-story building badly damaged by lightning and resultant fire. Many trees, signs, and 2 television antennas blown down.
Duncannon, Pa.	5	4:45-5 p. m.	-----	-----	30,000	Thunderstorms	Three converging storms unroofed house and carried roof 500 feet, landing it on top of garage so that it looked as if it fit and belonged there. Another house and apartment unroofed. At least 75 large trees blown down, 1 onto house where branches went through roof and 1st floor ceiling and pushed stove through floor to basement. 3 barns partly demolished, silo blown down, livestock injured. Power lines down, with 1 small fire resulting. Sewer pipe ruptured when big tree uprooted. Traffic delayed for ½ hour due to debris-laden streets.
Wilkes-Barre and vicinity, Pa.	6	5:30-9:30 p. m.	-----	-----	25,000	Electrical	Series of 3 thunderstorms. Lightning caused numerous fires, 3 barns on 2 farms destroyed. Transformer hit by lightning. Power and telephone lines down.
Philadelphia and vicinity, Pa.	7	2-6 p. m.	-----	1	-----	Electrical and hail	Hail damaged fabric on 10 airplanes at North Philadelphia Airport and on 2 airplanes at Flying Dutchman Airport at Somerton. Hundreds of panes of glass in greenhouses broken and hundreds of plants damaged by hail. Hailstones so large and numerous that golfers unable to find their golf balls among them. Some hailstones as large as hens' eggs. Farmer killed when struck by lightning.
Cheyenne, Wyo.	20	12:45 p. m.	-----	0	0	Tornado	Funnel sighted, but did not reach ground.
Sumner County, Kans.	20	8-9 p. m.	880	-----	25,000	Hail and wind	Heavy hail fell over path 3 miles long, about 1 mile west of Mayfield. Principal damage to crops. High wind in a number of other localities over county, uprooted trees and broke power and telephone wires.
Zelienople, Altoona, and Johnstown, Pa.	22	4 p. m.	-----	1	-----	Tornadoes and thunderstorms.	Violent storm sweeping from southwest produced 2 twisters. One out 100-yard-wide path in South Zelienople. Other swept down Carson Valley into southwest section of Altoona. In South Zelienople small buildings at Lutheran Old Peoples Home and Orphanage damaged. Storm preceded by rain, and hail "as big as cherries." Combination garage and workshop leveled, with damage of \$4,000. A dog and chickens were thrown through the air as a shed toppled over. A cow badly injured and had to be destroyed. At Harmony Junction, 3 miles outside Zelienople, high winds and rain knocked out about 6,000 window panes of greenhouse. Roof lifted off house. Foundation of garage moved, damaging new car. A 64-year-old man electrocuted near Johnstown, when he tried to pick up fallen "live" wire. 3 others in that area hurt, when tree fell on car. All electric and power lines south of Johnstown down. In Johnstown area, man injured when tree struck by lightning fell on him; another stunned when lightning struck his home. Large barn flattened near Lloydell, killing 2 sheep. Roofs of 2 barns torn off near Boswell. (This information is additional to damage reported in May MONTHLY WEATHER REVIEW for storm in Beaver and Butler Counties, Pa., on May 22.)
Masontown, Uniontown, and Dunbar, Pa.	22	4:30-5:30 p. m.	112	-----	-----	Wind, hail, and electrical.	Storm from southwest; path 20 miles long. Storm lasted barely 15 minutes at each individual spot, but took about 1 hour to cross whole area. 2 persons in Uniontown stunned by lightning. Fire, started by lightning, destroyed 2-story frame house near Point Marion. Damage estimated \$12,000. Telephone and power lines down; some out of service throughout night. Storm first hit near Ronco, attended by heavy hail. Storm from west entered Uniontown, covering entire city. Storage building at Connellsville Airport capsized and blown 75 feet. Garage near Dunbar unroofed. Roads blocked by fallen trees, and some property damage from fallen trees. 2 trees uprooted, silo blown down, and part of roof blown off barn near Waynesburg. Garages and other small buildings destroyed, trees uprooted, roofs torn off, chimneys knocked down, windows broken in all parts of Uniontown. Tall smoke stack doubled over. Large frame barn damaged. Downtown streets inundated to depth of several inches at height of storm, with lumber from a lumber company being swept across road by water.
Lehigh, Berks, and Northampton Counties, Pa.	22	7:30-9:30 p. m.	-----	0	-----	Tornado, hail, and electrical.	At Hosensack 2 persons injured, and 5 chicken houses containing 5,200 chickens demolished by tornado. Many power failures and many trees blown down. Lightning set fire to 1 house in Allentown. Gusts reached 85 m. p. h. at Allentown-Bethlehem-Easton Airport. Garage demolished at Coopersburg, but car inside barely scratched. Hail at Coopersburg. 3 barns smashed along Limeport-Steinsburg road. 4 poultry houses smashed at Wescoville. House unroofed at Lenhartsville. 1 mile north of Allentown, a war-surplus glider carried up and over a 1-story building and dropped upside down on highway. Many roads temporarily blocked by fallen trees, utility poles, and "hot" wires. Telephone and electric services disrupted for several hours.

¹ Miles instead of yards.

LATE STORM REPORTS FOR MARCH, APRIL, AND MAY 1949—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Clayton, Pa.	May 22	7:30-9:30 p. m.	-----	0	-----	Tornado and thunderstorm.	Huge barn wrecked. At a hosiery mill rear wall blown in, front wall blown out, and roof caved in. Nearby 3 homes damaged, and 2-story garage demolished. 5 persons injured when 3-story house was unroofed. Several other houses partly unroofed and otherwise damaged in Bally-Clayton area. In Palm, a stone house unroofed and stone walls badly cracked. Another stone house partly unroofed. 100-year old trees uprooted and twisted. Barn unroofed and twisted. Wind shift clouds at Pottstown from 8:30 to 8:50 p. m. were dull orange color.
Harrisburg and Hummelstown, Pa.	22	8:30-9:30 p. m.	-----	0	-----	Tornadoes and thunderstorms.	High winds, heavy rain, $\frac{3}{4}$ -inch hailstones, and at least 1 small twister moved eastward. Strong winds blew down many big trees in River Park, completely blocking Front Street for 15-20 blocks. House roof blown off, felling several light poles and sideswiping other homes. Several cars damaged by trees falling on them. Signs and small stands damaged store windows. Fallen power lines resulted in several spot fires, causing limited property damage. Near Hummelstown, side of stone house blown out; several barns unroofed. A partially finished home demolished and another new home blown down. Roof of grocery store blown through air about 75 feet, damaging home. Highways near Hummelstown, Annville, and Lebanon, and locally in Harrisburg closed to auto traffic for several hours, until fallen trees and debris could be cleared.